# Climate Change and Human Health Literature Portal



# Ecosystem stewardship: Sustainability strategies for a rapidly changing planet

Author(s): Chapin FS 3rd, Carpenter SR, Kofinas GP, Folke C, Abel N, Clark WC, Olsson

P, Smith DM, Walker B, Young OR, Berkes F, Biggs R, Grove JM, Naylor RL,

Pinkerton E, Steffen W, Swanson FJ

**Year:** 2010

Journal: Trends in Ecology & Evolution. 25 (4): 241-249

#### **Abstract:**

Ecosystem stewardship is an action-oriented framework intended to foster the social-ecological sustainability of a rapidly changing planet. Recent developments identify three strategies that make optimal use of current understanding in an environment of inevitable uncertainty and abrupt change: reducing the magnitude of, and exposure and sensitivity to, known stresses; focusing on proactive policies that shape change; and avoiding or escaping unsustainable social-ecological traps. As we discuss here, all social-ecological systems are vulnerable to recent and projected changes but have sources of adaptive capacity and resilience that can sustain ecosystem services and human well-being through active ecosystem stewardship.

Source: http://dx.doi.org/10.1016/j.tree.2009.10.008

#### **Resource Description**

#### Exposure: M

weather or climate related pathway by which climate change affects health

**Ecosystem Changes** 

# Geographic Feature:

resource focuses on specific type of geography

General Geographical Feature

## Geographic Location: M

resource focuses on specific location

Global or Unspecified

#### Health Impact: M

specification of health effect or disease related to climate change exposure

Health Outcome Unspecified

## 

# Climate Change and Human Health Literature Portal

mitigation or adaptation strategy is a focus of resource

Adaptation

Resource Type: **™** 

format or standard characteristic of resource

Policy/Opinion, Research Article

Resilience: M

capacity of an individual, community, or institution to dynamically and effectively respond or adapt to shifting climate impact circumstances while continuing to function

A focus of content

Timescale: M

time period studied

Time Scale Unspecified